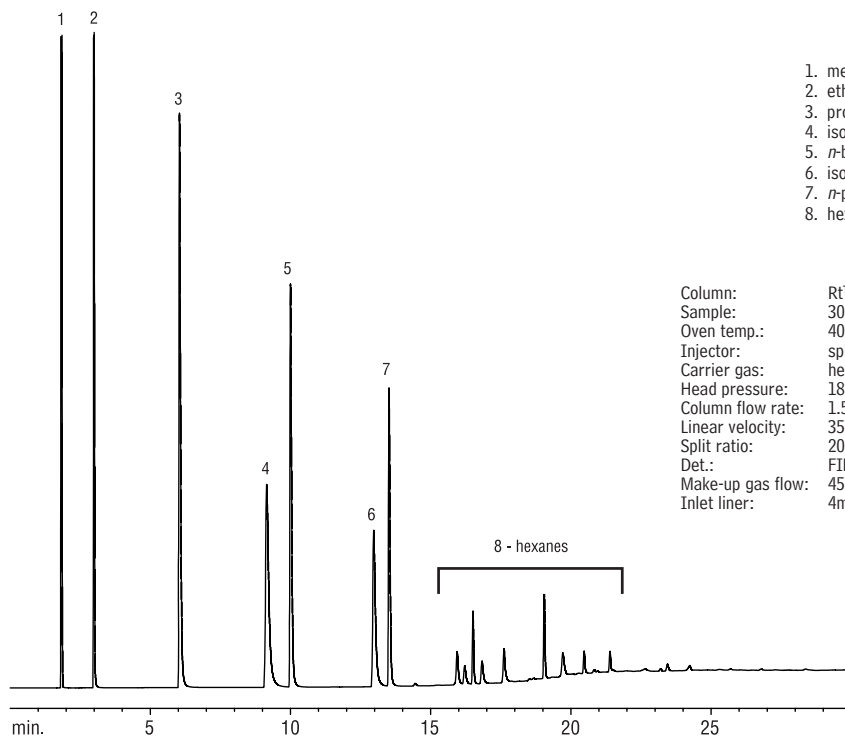


## Hydrocarbon Gases

## Rt™-QPLOT

(PLOT)



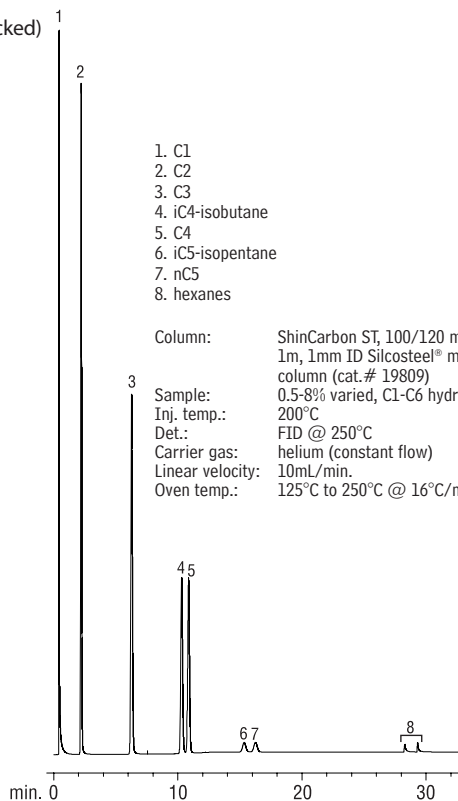
1. methane
2. ethane
3. propane
4. isobutane
5. *n*-butane
6. isopentane
7. *n*-pentane
8. hexanes

Column: Rt™-QPLOT, 30m, 0.32mm ID (cat.# 19718)  
 Sample: 30.0µL injection of Hydrocarbon Gas Mix  
 Oven temp.: 40°C to 240°C @ 10°C/min. (hold 10 min.)  
 Injector: split/250°C  
 Carrier gas: helium (constant pressure mode)  
 Head pressure: 18.0psi  
 Column flow rate: 1.5cc/min. @ 40°C  
 Linear velocity: 35cm/sec. @ 40°C  
 Split ratio: 20:1  
 Det.: FID @ 240°C  
 Make-up gas flow: 45cc/min.  
 Inlet liner: 4mm single gooseneck (cat.# 20798)

GC\_PC00523

Natural Gas  
ShinCarbon ST

(micropacked)



1. C1
2. C2
3. C3
4. iC4-isobutane
5. C4
6. iC5-isopentane
7. nC5
8. hexanes

Column: ShinCarbon ST, 100/120 mesh  
 1m, 1mm ID Silcosteel® micropacked  
 column (cat.# 19809)  
 Sample: 0.5-8% varied, C1-C6 hydrocarbons  
 Inj. temp.: 200°C  
 Det.: FID @ 250°C  
 Carrier gas: helium (constant flow)  
 Linear velocity: 10mL/min.  
 Oven temp.: 125°C to 250°C @ 16°C/min.

## free literature

ShinCarbon ST Micropacked GC Columns: Above-Ambient  
Analyses of Permanent Gases and Light Hydrocarbons

A ShinCarbon ST micropacked column will separate hydrogen, oxygen, nitrogen, carbon dioxide, carbon monoxide, and methane in 10 minutes, without cryogenic cooling—a separation that has been impossible for a single GC or GSC column without subambient temperature. The 2-page note also shows separations of light hydrocarbon/permanent gas mixtures, natural gas components, sulfur dioxide, and fluorocarbons—all obtained using a 1-meter or 2-meter micropacked column and above-ambient initial temperatures.

Download your free copy from [www.restek.com](http://www.restek.com).

Applications Note  
 lit. cat.# 59519A